

Atty. Dkt. No. EPI3007B
(form rly TSRI 184.2C2)

THE CLAIMS

Please amend the claims as shown below.

Claims 1-78 (Cancelled).

79. (Presently amended) The plant of claim 83, wherein said product comprising a single immunoglobulin polypeptide is ~~molecules are~~ present at a level of at least 56 ng/mg of total protein in extracts of said plants.

Claim 80 (Cancelled).

81. (Presently amended) The plant of claim 83, wherein at least some of said product comprising a single immunoglobulin polypeptide is ~~molecules are~~ present within the cell wall of said plant cells.

82. (Presently amended) The plant of claim 83, wherein said product comprising a single immunoglobulin polypeptide is ~~molecules are~~ trafficked through the Golgi of said plant cells.

83. (Presently amended) A plant, comprising plant cells containing:

- a) nucleotide sequence encoding an immunoglobulin product comprising a single immunoglobulin polypeptide ~~product~~ containing an immunoglobulin heavy chain polypeptide, wherein said nucleotide sequence encodes a leader sequence forming a secretion signal for said single polypeptide product, said heavy chain derived obtained from an antigen-specific immunoglobulin comprising a heavy and light chain, and said single polypeptide product being capable of forming an antigen-specific immunoglobulin when co-expressed in a plant cell with said light chain from said antigen-specific immunoglobulin and wherein said plant cells do not contain nucleic acid encoding said light chain; and
- b) immunoglobulin single polypeptide product encoded by said nucleotide sequence, wherein said leader sequence is cleaved from said polypeptide product following proteolytic processing of said single polypeptid product.

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84. (Presently amended) The plant of claim 83, wherein said product comprising a single immunoglobulin polypeptide ~~immunoglobulin product to~~ associates with a polypeptide to form a multimer.

85. (Previously pending) The plant of claim 84, wherein said multimer is a dimer.

Claim 86 (Cancelled).

87. (Presently amended) The plant of claim 84, wherein said product comprising a single immunoglobulin polypeptide associates to form product is a multimer of said heavy chain.

88. (Presently amended) The plant of claim 83, wherein said product comprising a single immunoglobulin polypeptide ~~immunoglobulin product~~ comprises a paratope.

89. (Presently amended) The plant of claim 83, wherein product comprising a single the immunoglobulin polypeptide product comprises a glycosylated immunoglobulin molecule free of sialic acid residues.

90. (Previously pending) The plant of claim 83, wherein the heavy chain is selected from the group consisting of IgG, IgM, IgA, IgD and IgE.

Claims 91-92 (Cancelled).

93. (Previously pending) The plant of claim 83, wherein the plant is a dicotyledonous plant.

94. (Previously pending) The plant of claim 83, wherein the plant is a monocotyledonous plant.

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95. (Previously pending) The plant of claim 83, wherein the plant is an alga.

Claims 96-99 (Cancelled).